```
=> s l1 full
FULL SEARCH INITIATED 11:29:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1843 TO ITERATE

100.0% PROCESSED    1843 ITERATIONS                    1 ANSWERS
SEARCH TIME: 00.00.01

L5            1 SEA SSS FUL L1

=> s l2 full
FULL SEARCH INITIATED 11:29:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1843 TO ITERATE

100.0% PROCESSED    1843 ITERATIONS                    1 ANSWERS
SEARCH TIME: 00.00.01

L6            1 SEA SSS FUL L2

L11           0 S L6 NOT L5
```
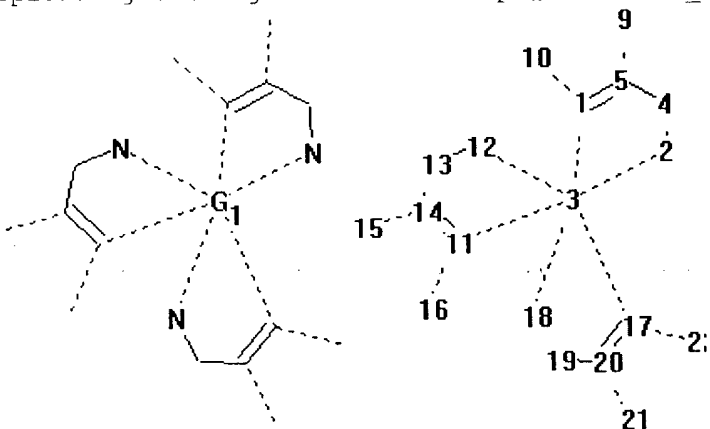
Search HISTORIES

Uploading C:\Program Files\Stnexp\Queries\09_995609 n_3 chain only.str


```
chain nodes :
9   10   15   16   21   22
ring nodes :
1   2   3   4   5   11   12   13   14   17   18   19   20
chain bonds :
1-10   5-9   11-16   14-15   17-22   20-21
ring bonds :
1-3   1-5   2-4   2-3   3-12   3-11   3-18   3-17   4-5   11-14   12-13   13-14   17-20
18-19
19-20
exact/norm bonds :
1-3   1-5   1-10   2-4   2-3   3-12   3-11   3-18   3-17   4-5   5-9   11-14   11-16   12-
13
13-14   14-15   17-20   17-22   18-19   19-20   20-21
G1:Ir,Rh

Connectivity :
2:3 M minimum R   ring   12:3 M minimum R   ring   18:3 M minimum R   ring
Match level :
1:Atom   2:CLASS   3:Atom   4:Atom   5:Atom   9:CLASS   10:CLASS   11:Atom   12:CLASS
13:Atom
14:Atom   15:CLASS   16:CLASS   17:Atom   18:CLASS   19:Atom   20:Atom   21:CLASS
22:CLASS
L1        STRUCTURE UPLOADED
```
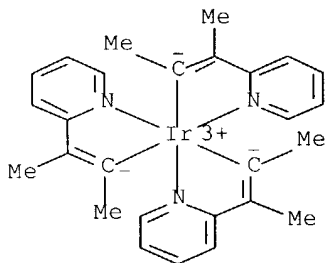
L5   ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN   594819-53-1 REGISTRY
ED   Entered STN: 29 Sep 2003
CN   Iridium, tris[1-methyl-2-(2-pyridinyl-κN)-1-propenyl-κC]-
     (9CI) (CA INDEX NAME)
MF   C27 H30 Ir N3
CI   CCS
SR   CA
LC   STN Files: CA, CAPLUS, USPATFULL

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C3IrN-C3IrN- C3IrN-C5N- C5N-C5N	IrNC3-IrNC3- IrNC3-NC5- NC5-NC5	5-5-5-6-6-6	C21IrN3	9762.174.1	1

     1 REFERENCES IN FILE CA (1907 TO DATE)
     1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
        FILE 'REGISTRY' ENTERED AT 13:53:42 ON 10 DEC 2003
L1              SCREEN 2049 AND 1838

        FILE 'STNGUIDE' ENTERED AT 13:54:38 ON 10 DEC 2003

        FILE 'REGISTRY' ENTERED AT 13:54:50 ON 10 DEC 2003
L2              SCREEN 2049 AND 1838
L3              QUE  SCREEN
L4              STRUCTURE UPLOADED
L5           1 S L2 AND L4
L6          18 S L2 AND L4 FULL
L7      320037 S (PT OR IR OR RH OR PD)/ELS
L8           0 S L6 AND L7

        FILE 'STNGUIDE' ENTERED AT 13:59:26 ON 10 DEC 2003

        FILE 'REGISTRY' ENTERED AT 14:05:01 ON 10 DEC 2003
L9              STRUCTURE UPLOADED
L10          0 S L9
L11         42 S L9 FULL

        FILE 'STNGUIDE' ENTERED AT 14:06:26 ON 10 DEC 2003

        FILE 'REGISTRY' ENTERED AT 14:18:07 ON 10 DEC 2003
L12         10 S L11 AND (C57 H69 CL3 IR N3 OR C36 H56 N2 O2 PT OR  C33 H42 IR

        FILE 'HCAPLUS, GMELIN, MARPAT' ENTERED AT 14:19:01 ON 10 DEC 2003
L13          8 S L11
L14          8 S L11

        FILE 'REGISTRY' ENTERED AT 14:23:43 ON 10 DEC 2003
L15         SEL L12 1- RN :      10 TERMS

        FILE 'HCAPLUS, GMELIN, MARPAT' ENTERED AT 14:24:04 ON 10 DEC 2003
L16          2 S L15
```

```
FILE 'HCAPLUS' ENTERED AT 13:23:34 ON 10 DEC 2003
L1          7 S E4-E6
            E THOMPSON M/IN
L2          1 S E4
            E THOMPSON MARK/IN
            E THOMPSON M/IN
L3          4 S E3
            E THOMPSON MARK/IN
L4         60 S E3,E6
L5         65 S L2-L4
L6          5 S L1 AND L5
L7        SEL L6 1- RN IC :     188 TERMS
L8     578535 S L7
L9          5 S L8 AND L6
```

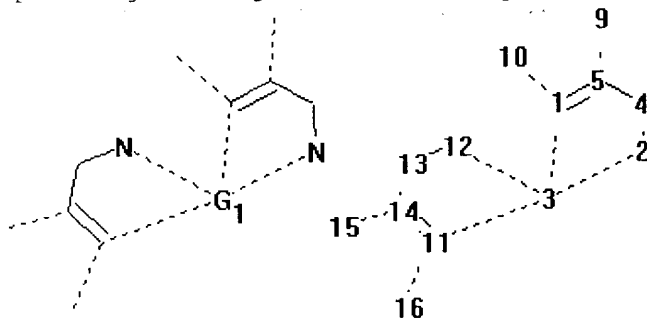*The vinyl pyridine ligand was not indexed for Thompson*

FILE 'REGISTRY' ENTERED AT 14:45:05 ON 10 DEC 2003

=>
Uploading C:\Program Files\Stnexp\Queries\09_995609 n2 chain only.str

chain nodes :
9 10 15 16
ring nodes :
1 2 3 4 5 11 12 13 14
chain bonds :
1-10 5-9 11-16 14-15
ring bonds :
1-3 1-5 2-4 2-3 3-12 3-11 4-5 11-14 12-13 13-14
exact/norm bonds :
1-3 1-5 1-10 2-4 2-3 3-12 3-11 4-5 5-9 11-14 11-16 12-13 13-14
14-15

G1:Pd,Pt

Connectivity :
2:3 M minimum R ring   12:3 M minimum R ring
Match level :
1:Atom 2:CLASS 3:Atom 4:Atom 5:Atom 9:CLASS 10:CLASS 11:Atom 12:CLASS
13:Atom
14:Atom 15:CLASS 16:CLASS

L17   STRUCTURE UPLOADED
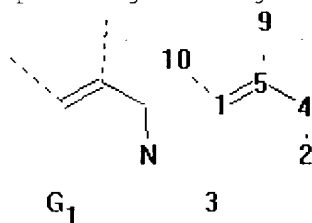L18   0 SEA SSS SAM L17
L19   0 SEA SSS FUL L17

```
         FILE 'REGISTRY' ENTERED AT 12:12:34 ON 10 DEC 2003
L1        320037 S (PT OR PD OR IR OR RH)/ELS
L2        361912 S (PYRIDIN? OR QUINOL? OR PYAZO? OR BENZOTHIAZO? OR
BENZOXAZO?
L3          3786 S L1(P)L2
L4        154792 S N/ELS(P)L1
L5             SCREEN 2049
L6          3501 S L3 AND L4
L7          2605 S NC=1 AND L6
L8          1386 S C3IRN/EAS
L9            50 S L7 AND L8
L10            0 S IRNC3/EAS
L11         1365 S IRNC3/ESS
L12           47 S L11 AND L9
L13      3956879 S 3/CNRS
L14            2 S L12 AND L13
L15      1743838 S 4/CNRS
L16            0 S (PT OR PD)/ELS AND L2 AND L8 AND NC=1 AND L11 AND L15
L17            0 S (PT OR PD)/ELS AND (C3NPD OR C3NPD)/EAS AND NC=1 AND (PTNC3
O
L18          613 S (PT OR PD)/ELS AND (C3NPD OR C3NPD)/EAS AND NC=1 AND 4/CNRS
Uploading C:\Program Files\Stnexp\Queries\09_995609 n_2 chain not bonded.str
```



```
chain nodes :
1   3   5   9   10
ring nodes :
2   4
chain bonds :
1-10   1-5   4-5   5-9
ring bonds :
2-4
exact/norm bonds :
1-10   2-4   5-9
exact bonds :
1-5   4-5


G1:Pd,Pt


Connectivity :
2:1 E exact R  ring
Match level :
1:Atom   2:CLASS   3:Atom   4:Atom   5:Atom   9:CLASS   10:CLASS


L20       STRUCTURE UPLOADED
L21            0 SEA SSS SAM L20
L22            0 SEA SSS FUL L20
```

```
      (FILE 'REGISTRY' ENTERED AT 14:45:05 ON 10 DEC 2003)
L1      213739 S (PT OR PD)/ELS
L2             QUE N/ELS AND L1
L3           0 CHELATE? AND L2
L4           0 COORDINAT? AND L2
L5       44036 COMPLEX AND L2
L6     2844616 PYRIDIN? OR QUINOLIN? OR IMIDAZO? OR PYAZOL? OR BENZOTHIAZOL?
               OR BENZOXAZOL? OR BENZIMIDAZOL?
L7        8657 L5 AND L6
L8           0 L1(P)N/ELS(P)COMPLEX(P)L6
L9        1869 VINYLPYRIDIN?
L10          4 L9 AND L7

      FILE 'MARPAT, HCAPLUS, GMELIN' ENTERED AT 15:07:13 ON 10 DEC 2003
L11          8 S L10

      FILE 'MARPAT, HCAPLUS, GMELIN' ENTERED AT 15:30:35 ON 10 DEC 2003
L12     441228 S PYRIDIN? OR QUINOLIN? OR IMIDAZO? OR PYAZOL? OR BENZOTHIAZOL?
L13    1675179 S CHELAT? OR COORDINAT? OR COMPLEX?
L14      43674 S L12 (10A)L13
L15    1051924 S PT OR RH OR IR OR PD OR PALLADIUM OR RHENIUM OR IRIDIUM OR PL
L16       4302 S L14(10A)L15
L17     622282 S VINYL? OR ETHEN? OR ALLYL?
L18        127 S L16(10A)L17
L19         49 S VINYL?(10A)L16
L20         33 S PYRAZOL?(10A)L13(10A)L15(10A)L17
L21         32 S L20 NOT L19
L22        SEL L21 12 RN :       18 TERMS
L23       5651 S L22
L24          3 S L21 AND L2
```
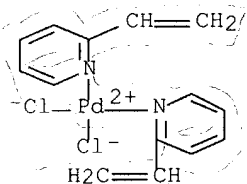
FYI

L10   ANSWER 1 OF 4 REGISTRY   COPYRIGHT 2003 ACS on STN
RN   116745-83-6 REGISTRY
CN   Palladium, dichlorobis(2-ethenylpyridine)-, (SP-4-1)- (9CI)   (CA
      INDEX NAME)
OTHER CA INDEX NAMES:
CN   Pyridine, 2-ethenyl-, palladium complex
OTHER NAMES:
CN   trans-Dichlorobis(2-vinylpyridine)palladium
MF   C14 H14 Cl2 N2 Pd
LC   STN Files: CA, CAPLUS, CASREACT

          2 REFERENCES IN FILE CA (1907 TO DATE)
          2 REFERENCES IN FILE CAPLUS (1907 TO DATE)